

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59888 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 15 2012

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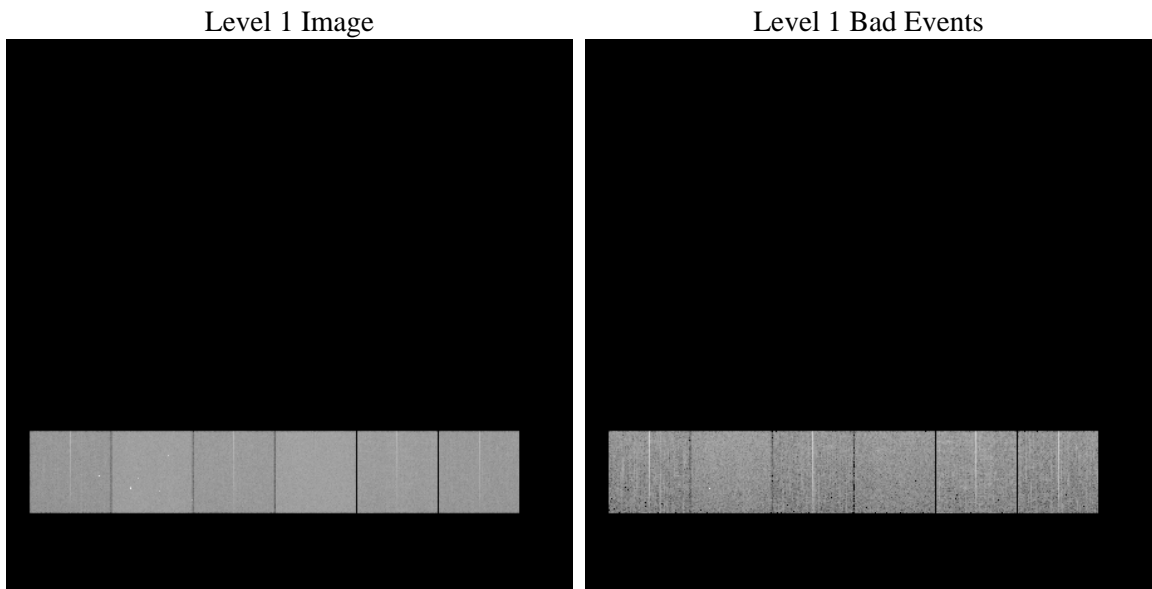
# 1 Front

seq_num	&#160	Sequence number
obs_id	59888	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	105.96506382675	Nominal RA [deg]
dec_nom	34.999040308473	Nominal Dec [deg]
roll_nom	149.12001960506	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7800.8944702744	Sum of GTIs [s]
livetime	7702.1148473571	Livetime [s]
ontime4	5771.923692584	Sum of GTIs [s]
ontime5	7800.8534302711	Sum of GTIs [s]
ontime6	6423.4014138579	Sum of GTIs [s]
ontime7	7800.8944702744	Sum of GTIs [s]
ontime8	6552.957038939	Sum of GTIs [s]
ontime9	6222.5834195912	Sum of GTIs [s]
l2events	1050137	Number of level 2 events

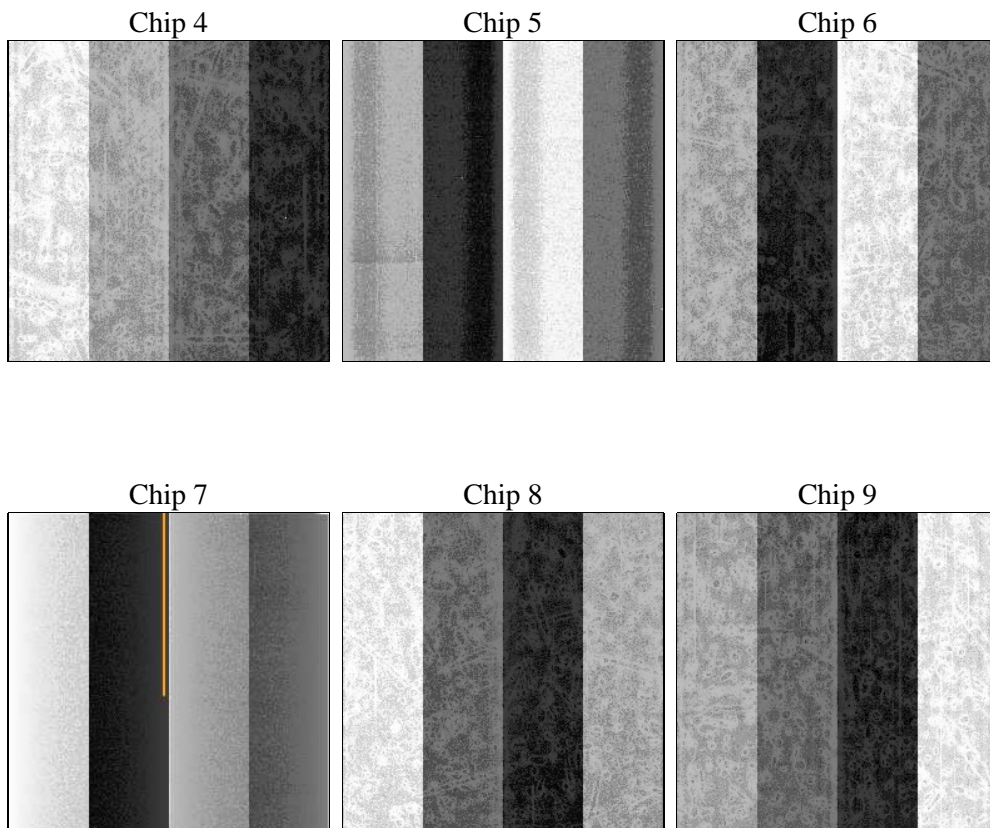
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	7800.8944702744	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime4	5771.923692584	Sum of GTIs [s]
date	2012-12-15T09:43:19	Date and time of file creation	ontime5	7800.8534302711	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6423.4014138579	Sum of GTIs [s]
			ontime7	7800.8944702744	Sum of GTIs [s]
			ontime8	6552.957038939	Sum of GTIs [s]
			ontime9	6222.5834195912	Sum of GTIs [s]
			l1events	1409950	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	196341	261079	223705	275721	240954	212150	grade 0 events	87019	46640	96530	55089	101385	90772
rejected events	47076	53155	46129	46458	54082	46569		44%	17%	43%	19%	42%	42%
rejected %	23%	20%	20%	16%	22%	21%	grade 1 events	668	348	465	171	544	516
								0%	0%	0%	0%	0%	0%
							grade 2 events	23724	73797	30837	50628	32588	28398
								12%	28%	13%	18%	13%	13%
							grade 3 events	9876	12661	11011	23067	12508	10725
								5%	4%	4%	8%	5%	5%
							grade 4 events	9864	12586	11191	22828	12374	10638
								5%	4%	5%	8%	5%	5%
							grade 5 events	2718	8552	3159	8617	3795	3227
								1%	3%	1%	3%	1%	1%
							grade 6 events	18782	62240	28007	77651	28017	25048
								9%	23%	12%	28%	11%	11%
							grade 7 events	43690	44255	42505	37670	49743	42826
								22%	16%	19%	13%	20%	20%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	105.9650638267517	Alternating exposures requested	N	N
[deg] Pointing Dec	0	34.99904030847318	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	149.1200196050583			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	220688768.726371	220688767.70137			
Observation start date	2004-12-29T06:26:09	2004-12-29T06:26:07			
[s] Observation end time (MET)	220703092.077017	220703091.05201			
Observation end date	2004-12-29T10:24:52	2004-12-29T10:24:51			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8008944702744

### A.2 Comments